

Notice of Allowability

Application No.

10/623,763

Examiner

Robert S. Tupper

Applicant(s)

SATO, KIYOSHI

Art Unit

2652

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the response of 3/3/05.
2. ☒ The allowed claim(s) is/are 1-21.
3. ☒ The drawings filed on 21 July 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 7/21/03
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

R.S. Tupper
ROBERT S. TUPPER
PRIMARY EXAMINER
GROUP 2500-2652

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1. The following is an examiner's statement of reasons for allowance:

Concerning claim 1, the prior art does not teach or suggest a thin film magnetic head having a lower core layer, an upper core layer, a recording section with a gap layer between the upper and lower core layers adjacent the recording medium, a connecting portion magnetically connecting the upper and lower core layers remote from the medium, a coil with a conductor layer wound in a spiral planar shape around the connecting portion, and a first radiating layer disposed in the rear of the lower core layer and separated from the lower core layer, where the coil has a portion facing the lower core layer through an insulating layer, and a portion facing the first radiating layer through an insulating layer.

Concerning claim 2, the prior art does not teach or suggest a thin film magnetic head having a lower core layer, an upper core layer, a recording section with a gap layer between the upper and lower core layers adjacent the recording medium, a connecting portion magnetically connecting the upper and lower core layers remote from the medium, a coil with a conductor layer wound in a spiral planar shape around the connecting portion, an upper shield below the lower core layer with an insulating layer therebetween, a lower shield below the upper shield, an MR read element between the upper and lower shields and separated from them by an insulating layer, and at least one of first, second, and third radiating layers, where the first radiating layer is located in the rear of the lower core layer and separated therefrom, the second radiating layer is located in the rear of the upper shield and separated therefrom, and the third radiating layer is located in the rear of the lower shield and separated

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therefrom, and the coil has a portion facing the lower core layer through an insulating layer, and a portion facing any one of the first, second, and third radiating layers through an insulating layer.

All of the claims are read in light of the specification and drawings for definition of "upper", "lower", "rear", "first", "second", "third", "radiating", and "insulating".

2. The election of species requirement has been withdrawn in view of the allowance of generic claim 1. All of the claims have now been examined on the merits.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert S. Tupper whose telephone number is 571-272-7581. The examiner can normally be reached on Mon - Fri, 6:30 AM - 4:00 PM (first Fri off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Robert S Tupper
Primary Examiner
Art Unit 2652

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